

On the origin of petroleum n-alkylbenzenes

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Abstract

© 2015 Pleiades Publishing, Ltd. The homologous series of C₉-C₂₃ n-alkylbenzenes has been first identified in the products of thermal and thermocatalytic transformations of the insoluble part of the *Arthrobacter* sp. RV and *Pseudomonas aeruginosa* RM bacterial biomass, and their distribution has been revealed; a homologous series of n-alkyltoluenes has been discovered as well. It has been suggested that the n-alkylbenzenes are biomarkers.

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Keywords

alkylbenzenes, bacteria, biomarkers, thermal and thermocatalytic conversion